



and  $R^1$  and  $R^2$  may be the same or different and represent an alkyl group containing 1 to 20 carbon atoms, an aryl group containing 6 to 20 carbon atoms or an aryl alkyl group containing 7 to 20 carbon atoms, X can be a hydroxyl group or a hydrolysable group  $a = 0, 1, 2$  or  $3$  and  $b = 0, 1$  or  $2$ , the sum of  $a$  and  $b$  being 1 or greater than 1, and  $n$  is an integer of 0 to 18,  $m$  is an integer of 0 to 4 and  $R^3$  represents

-  $(CH_2)_m$  or

-  $(CH_2)_m-N-(CH_2)_m-$   
|  
H

16. (New) The hotmelt adhesive composition as claimed in claim 14 which comprises:

- (a) 20 to 70% by weight of reactive binders,
- (b) 5 to 30% by weight of non-reactive binders,
- (c) 20 to 30% by weight of water-binding fillers,
- (d) 5 to 30% by weight of fine-particle inert fillers,
- (e) 0.1 to 2% by weight of organofunctional silanes,
- (f) 0.1 to 2% by weight of catalysts,
- (g) 0 to 3% by weight of antiagers .

17. (New) The hotmelt adhesive composition as claimed in claim 16, additionally comprising 2 to 40% by weight of plasticizer.

18. (New) The hotmelt adhesive composition as claimed in claim 16, having two components, wherein one component contains constituents (a) to (e) and (g) and the second component contains constituents (b), (c), (d), (f) and optionally a plasticizer.

19. (New) The hotmelt adhesive composition as claimed in Claim 16 comprising two components, wherein one component contains constituents (a) to (g) and the second component comprises a water-containing paste which contains water in dissolved, absorbed or emulsified form or in the form of solid water-releasing substances and optionally a member selected from the group consisting of a non-reactive binder (b), a plasticizer and mixture thereof.

20. (New) The hotmelt adhesive composition as claimed in claim 14 wherein the at least one reactive binder contains on a statistical average between 1 and 3 silane-functional groups per molecule.
21. (New) The hotmelt adhesive composition as claimed in claim 14 wherein the at least one non-reactive binder comprises a member selected from the group consisting of polybutenes and butyl rubbers.
22. (New) The hotmelt adhesive composition as claimed in claim 14 which is additionally comprised of at least one constituent selected from the group consisting of plasticizers, water-binding filler B), fine-particle inert filler(s), organofunctional silanes, catalysts and antiagers.
23. (New) The hotmelt adhesive composition as claimed in claim 14 which is additionally comprised of at least one member selected from the group consisting of water-binding filler(s), a fine-particle inert filler(s), organofunctional silane(s), catalyst(s), antiager(s) and plasticizer(s).
24. (New) The hotmelt adhesive composition as claimed in claim 14, comprised of 20 to 70% by weight of the reactive binder(s) and 5 to 30% by weight of the non-reactive binder(s).
25. (New) The hotmelt adhesive composition of claim 14 comprised of:
- (a) 20 to 70% by weight of at least one reactive binder selected from the group consisting of silane-functional polyisobutylenes and silane-functional hydrogenated polybutadienes;
  - (b) 5 to 30% by weight of a member selected from the group consisting of butyl rubbers;
  - (c) 20 to 30% by weight of at least one molecular sieves;
  - (d) 5 to 30% by weight of at least one carbon black;
  - (e) 0.1 to 2% by weight of at least one or more catalysts;
  - (f) 0.1 to 2% by weight of at least one organosilane;
  - (g) optionally, one or more plasticizers; and
  - (h) optionally, 0 to 3% by weight of antiagers selected from the group

consisting of antioxidants, UV stabilizers, anti-ozonants and hydrolysis stabilizers.

26. (New) A multiple glazing system comprising two or more layers of glass arranged parallel to one another and the hotmelt adhesive composition of claim 14 in cross-linked form.
27. The multiple glazing system of claim 21 wherein the cross-linked hotmelt adhesive composition is present between said layers of glass at the edges of said layers of glass.
28. A process for producing a multiple glazing system comprised of two or more layers of glass arranged parallel to one another, the process comprising:
  - (a) applying the hotmelt adhesive of claim 14 to one or more edges of a first layer of glass;
  - (b) positioning a second layer of glass over the first layer of glass in such a way that the first and second layer of glass are in alignment one above the other;
  - (c) pressing the first and second layers of glass together in such a way that the hotmelt adhesive composition wets the edges of both the first and second layers of the glass completely and a predetermined distance between the first and second layers of glass is reached; and
  - (d) curing the hotmelt adhesive composition.